

CLAIMS:

1. An inkjet recording element comprising a support having thereon in order:
 - 5 a) a fusible, porous ink-receptive layer comprising fusible polymeric particles, and a binder; and
 - b) a fusible, porous ink-transporting layer comprising fusible, polymeric particles and a film-forming, hydrophobic binder;
 wherein there is no porous, ink carrier liquid-receptive layer
10 between the ink-receptive layer and the support, that is capable of receiving a substantial amount of ink carrier liquid after the ink carrier liquid has passed through the ink-receptive layer.
- 15 2. The element of claim 1 wherein either the ink-receptive layer and/or the support is capable of receiving at least 10 cc/m^2 of the ink carrier liquid.
- 20 3. The element of claim 2 wherein the support is non-porous and the ink-receptive layer alone is capable of receiving at least 10 cc/m^2 of the ink carrier liquid.
- 25 4. The element of claim 2 wherein the support is porous and is capable of receiving at least 10 cc/m^2 of the ink carrier liquid.
5. The element of claim 2 wherein the support is porous and the
25 ink-receiving layer and the support in combination is capable of receiving at least 10 cc/m^2 of the ink carrier liquid.
- 30 6. The element of claim 1 wherein said fusible, porous ink-transporting layer has a mean pore diameter greater than the underlying fusible, porous ink-receptive layer.

7. The element of claim 1 wherein the support is porous and comprises a voided polyester.

8. The element of claim 1 wherein the support is porous and
5 comprises an open pore membrane.

9. The element of claim 1 wherein the support is porous and comprises poly(lactic acid).

10. The element of claim 1 wherein the particles of the fusible, porous ink-receptive layer are smaller than the particles of the fusible, porous ink-transporting layer, the support is porous, and the support has a pore size that is smaller than that of the fusible, porous ink-receptive layer.

11. The element of claim 1 wherein the fusible polymeric particles in the fusible, porous ink-receptive layer comprise a condensation polymer, a styrenic polymer, a vinyl polymer, an ethylene-vinyl chloride copolymer, a polyacrylate, poly(vinyl acetate), poly(vinylidene chloride), a vinyl acetate-vinyl chloride copolymer, a polyester, or a polyurethane.

12. The element of claim 1 wherein the fusible polymeric particles in the fusible, porous ink-receptive layer comprise a copolymer of ethyl methacrylate and methyl methacrylate.

13. The element of claim 1 wherein the binder in the fusible, porous ink-receptive layer comprises an aqueous dispersion of an acrylic polymer or a polyurethane.

14. The element of claim 1 wherein the fusible polymeric particles
30 in said fusible, porous ink-receptive layer are cationic.

15. The element of claim 1 having a mordant in the fusible, porous ink-receptive layer.

5 16. The element of claim 15 wherein the mordant comprises a cationic latex.

17. The element of claim 1 wherein the fusible, polymeric particles in the fusible, porous ink-transporting layer range in size from about 0.5 to about 10 μm .

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18. The element of claim 1 wherein the particle-to-binder ratio of the fusible, polymeric particles and the film-forming, hydrophobic binder in the ink-transporting layer is between about 95:5 and 60:40.

15 19. The element of Claim 1 wherein the fusible polymeric particles in the ink-transporting layer comprise a condensation polymer, a styrenic polymer, a vinyl polymer, an ethylene-vinyl chloride copolymer, a polyacrylate, poly(vinyl acetate), a poly(vinylidene chloride), a vinyl acetate-vinyl chloride copolymer, a polyester, or a polyurethane.

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20. The element of Claim 1 wherein the fusible polymeric particles in the ink-transporting layer comprise a cellulose acetate ester.

21. The element of Claim 1 wherein the film-forming hydrophobic binder in the ink-transporting layer comprises an aqueous dispersion of an acrylic polymer or a polyurethane.

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22. The element of Claim 1 wherein the film-forming hydrophobic binder in the ink-transporting layer is anionic or non-ionic.

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23. An inkjet recording element comprising a support having thereon in order:

a) a fusible, porous ink-receptive layer comprising fusible polymeric particles, and a binder; and

5 b) a fusible, porous ink-transporting layer comprising fusible, polymeric particles and a film-forming, hydrophobic binder;

wherein the ink-receptive layer and the support are capable of receiving at least 10 cc/m² of ink carrier liquid after the ink carrier liquid has passed through the ink-transporting layer.

10 24. The element of claim 23 wherein the ink-receptive layer and the support are capable of receiving at least 14 cc/m² of ink carrier liquid after the ink carrier liquid has passed through the ink-transporting layer

15 25. An inkjet printing process, comprising the steps of:

A) providing an inkjet printer that is responsive to digital data signals;

B) loading the inkjet printer with an inkjet recording element, the inkjet recording element comprising a support having thereon in order:

20 a) a fusible, porous ink-receptive layer comprising fusible, polymeric particles, and a binder; and

b) a fusible, porous ink-transporting layer comprising fusible, polymeric particles and a film-forming, hydrophobic binder;

25 wherein there is no porous, ink carrier liquid-receptive layer between the ink-receptive layer and the support, that is capable of receiving a substantial amount of ink carrier liquid after the ink carrier liquid has passed through the porous ink-receptive layer

C) loading the inkjet printer with an inkjet ink composition; and

30 D) printing on the inkjet recording element using the inkjet ink composition in response to the digital data signals; and

E) fusing both the ink-receptive layer and the ink-transporting layer.

26. The inkjet printing process of claim 25 wherein the ink-
5 receptive layer and/or the support, each either alone or in combination, is capable of receiving substantially all of the ink carrier liquid received after the ink carrier liquid has passed through the ink-transporting layer.

27. The inkjet printing process of claim 26 wherein the inkjet
10 recording element comprises an ink-receptive layer and a support, and wherein the ink-receptive layer and/or the support, each either alone or in combination, is capable of receiving at least 10 cc/m² of the ink carrier liquid.